

Batch processing system for a Linux cluster supercomputer

John Salem, Phil Sorensen, Frank Labonte,

Cody High School (Detroit) and CHESS **DMR-0225180**

NSF Research Experiences for Teachers (RET) participant John Salem spent his first summer as part of the CHESS computer group. His project was to evaluate, choose, and implement a prototype software batch control system for the MacCHESS Linux 128-node cluster computer. The cluster computers are tremendously powerful, but their productivity depends upon shared use and careful allocation of resources and jobs. John considered open source and commercial software packages and ended up installing and successfully testing the Moab commercial package. CHESS staff will be using the system this fall and outside user groups may use the system once fully tested.



John Salem, left, and an example of the java console interface architecture below.

